To B. A. Mitchell 11/4/64
15759

CATALOGUE

AND

PRICE LIST

OF

LENNIG & MITCHELL,

MANUFACTURERS OF

Brass Cocks, Plumbers' Brass Work,

Steam, Water & Gas Cocks,

&c., &c.

MANUFACTORY, OFFICE AND WAREHOUSE,

1615, 1617 & 1619

Francis Street and Ridge Road,

PHILADELPHIA, PA.

J. S. HELFENSTEIN, BOOK & JOB PRINTER, THIRD ST. ABOVE CHESTNUT.

1863.

LENNIG & MITCHELL,

PRACTICAL AND THEORETICAL

Machinists & Brass Founders,

1615, 1617 & 1619 FRANCIS STREET, AND RIDGE ROAD,

PHILADELPHIA.

Manufacturers of

COMBINED WATER GAUGES AND GAUGE COCKS, FOR STEAM BOILERS; WATER GAUGES, REVERSE VALVES, STEAM WHISTLES, GAUGE COCKS, OIL CUPS, OIL CANS, BRASS AND COPPER LAMPS, BRASS COCKS AND VALVES, GONG BELLS AND CRANKS, BELL PULLS, HOSE PIPES AND COUPLINGS, TIN AND COPPER MEASURES, CONDENSER WATER GAUGES, TELESCOPIC OIL CUPS, RELIEF AIR COCKS FOR CONDENSERS, GLOBE VALVES, STEAM ENGINE INDICATORS, PLUMBERS' BRASS WORK, GOVERNORS, SEWING MACHINES, AND EVERY VARIETY OF BRASS & IRON STEAM, WATER & GAS WORK.

Steam Whistles.

No. 1.	Inches,	3	4	5	6	8
	Price,	12.50	16.00	20.00	30.00	60.00
No. 2.	Inches,	3	4	5	6	8
	Price,	12.50	16.00	20.00	30.00	60.00
No. 3.	Inches,	2	3	4	5	6
	Price,	12.00	16.00	22 00	28.00	40.00

Locomotive Whistle, $26.00. Without Valves $2.00 less each.

All other sizes made to order, at standard prices.

Globe Oil Cups.

No. 1.	Steam Metal,	$56.00 per doz.		No. 4.	Steam Metal,	$93.00 per doz.
"	Yellow Brass,	50.00 "		"	Yellow Brass,	86.00 "
" 2.	Steam Metal,	63.00 "		" 5.	Steam Metal,	150.00 "
"	Yellow Brass,	56.00 "		"	Yellow Brass,	142.00 "
" 3.	Steam Metal,	72.00 "		" 6.	Steam Metal,	181.00 "
"	Yellow Brass,	63.00 "		"	Yellow Brass,	171.00 "

Without Air Cocks, $12.00 per doz. less.

COMPRESSION GLOBE OIL CUP.

No. 3. Steam Metal, ... $115.00 per doz.

Oil Cups, with Stop Cock.

No.	T. Handle.	No.	Lever Handle.
827 . . .	$21.00 per doz.	827½ . . .	$21.00 per doz.
828 . . .	24.00 "	828½ . . .	24.00 "
829 . . .	27.00 "	829½ . . .	27.00 "
830 . . .	31.00 "	830½ . . .	31.00 "
831 . . .	45.00 "	831½ . . .	45.00 "

TDCAT 1863
#PAPV03B651

Plain Oil Cups.—Best Steam Metal.

831½	$ 7.00 per doz.	836	$19.00 per doz.
832	8.50 "	836½	25.00 "
833	10.00 "	837	31.00 "
834	11.00 "	838	43.00 "
835	13.50 "	839	73.00 "

Tallow Oil Cup,

No.	0	1	2	3
Price per doz.	42.50	46.50	66.50	78.50

Hollow Plug Oil Cock,

No.	1	1½	2
Price per doz.	42.50	54.50	71.50

" " **open Top,** No. 1½, $56 50 per doz.

Steam Bibbs.

STEAM BIBBS, FINISHED.

Inches,	¼	⅜	½	⅝	¾	1	1¼	1½	1¾	2
Price per doz.	$18.00	20.00	23.00	27.00	35.00	46.00	67.00	88 00	102.00	137.00

STEAM BIBBS, ROUGH.

Inches,	¼	⅜	½	⅝	¾	1	1¼	1½	1¾	2
Price per doz.	$16.50	18.50	20.00	23.00	29.00	42.00	59.00	82.00	94.00	117.00

STEAM BIBBS, SCREW NOSE.

¼ inch, ... @ $18.50 per doz.

STEAM BIBBS, SCREW SHANK AND NUT, FINISHED.

No. 760, ⅜ inch bore, ... @ $42 50 per doz.

STEAM BIBBS, LONG SHANK, FINISHED.

No. 761, ⅜ inch bore, ... @ $42.50 per doz.

Steam Stops.

STEAM STOPS, T. HANDLE, FINISHED.

¼ inch, ... $10.50 per doz.

STEAM STOPS, LEVER HANDLE, FINISHED.

¼ inch, $14.00, ⅜ inch, 16.00, ½ inch, 20.00 per doz.

STEAM STOPS, SINGLE COUPLING, FINISHED.

Inches,	¼	⅜	½	⅝	¾	1	1¼	1½	1¾	2
Price per doz.	$18.00	20.00	23.00	31.00	38 00	52 00	70.00	102.00	117.00	132.00

STEAM STOPS, SINGLE COUPLING, ROUGH.

Inches,	¼	⅜	½	⅝	¾	1	1¼	1½	1¾	2
Price per doz.	$14.50	17.00	20.00	27.00	35.00	44.00	62.00	92.00	106.00	122.00

STEAM STOPS, DOUBLE COUPLING, FINISHED.

Inches,	¼	⅜	½	⅝	¾	1	1¼	1½	1¾	2
Price per doz.	$20.50	22.50	30.00	37.00	45.00	58.00	81.00	116.00	136.00	176.00

STEAM STOPS, DOUBLE COUPLING, ROUGH.

Inches,	¼	⅜	½	⅝	¾	1	1¼	1½	1¾	2
Price per doz.	$18.50	21.50	26.00	34.00	41.00	55.00	73.00	109.00	131.00	161.00

STEAM STOPS, BENT COUPLING, FINISHED.

Inches,	¼	⅜	½	⅝
Price per doz.	$22.00	26.00	32.00	38.00

STEAM STOPS, LONG SHANK, FINISHED.

No. 762, ¼ inch hole, ... $36.00 per doz.

ROUGH WATER STOP, HEAVY SHANK.

Inches,	¾	1	1¼	1½	1¾	2	2¼	2½	3
Price per doz.	$16.00	26.00	41.00	51.00	85.00	97.00	161.00	181.00	226.00

ROUGH FLANGE BIBB.—B. S. METAL.

Inches,	1	1¼	1½	1¾	2	2¼	3	3½	4
Price per lb.	80 cts.	80	80	80	75	75	75	75	75

Yellow Brass, 5 cts. per lb. less. Dia'r of Flange given when ordered.

Air Cocks,

Nos.	1	2	3	4
Price per doz.	$7 00	8.00	10.00	13.00

Cylinder Cocks.

No. 1	$18 00 per doz.	No. 5½	$11.00 per doz.
2	10.50 "	5¾	13.00 "
2½	10.50 "	6	18.00 "
3	10.50 "	7	14.50 "
3½	14.00 "	7 Sh't Shank,	12.50 "
4	16.50 "	8	20.00 "
4½	16.50 "	8½	14.00 "
5	16.00 "	9	16.50 "

No. 10, Yellow Metal,

Nut and Washer.

Inches,	½	⅝	¾
Price per doz.	$13.50	15.50	18 50

No. 10, Steam Metal,

Nut and Washer.

Inches,	½	⅝	¾
Price per doz.	$15.00	16.50	19.50

Add for Coupling in Nose, $4.00 per doz. Dia'r of hole inside.

No. 10½, Steam Metal,

Nut and Washer.

Inches,	⅝	¾	⅞	1
Price per doz.	$15.00	16.50	20.00	23.00

No. 10½, Yellow Metal,

Nut and Washer.

Inches,	⅝	¾	⅞	1
Price per doz.	$13.50	15.50	18.00	22.00

Add for Coupling in Nose, $4.00 per doz. Dia'r of Shank outside.

No. 11, $22.00 per doz. **No. 12,** $26.00 per doz.

Gauge Cocks.

No. 13	$28.00 per doz.	No. 20	36 00 per doz.
14	26.00 "	21	26.00 "
15	18.00 "	22	25.00 "
16	20.00 "	22½	16.00 "
17	23.50 "	23	38.00 "
18	26.00 "	24	36.50 "
19	16.50 "	25	14 00 "
19½	18.00 "	26	30.00 "

Compression Gauge Cocks.

No. 27	$24.00 per doz.	No. 37	$36.00 per doz.
28	23.00 "	38	42.00 "
29	26 00 "	39	36.00 "
30	18.50 "	40	50 00 "
30½	15.00 "	41	65 00 "
31	22.00 "	42	80.00 "
32	12.00 "	43	87.00 "
33	18.00 "	44	32.00 "
34	40 00 "	45	100.00 "
35	28 00 "	46	135 00 "
36	30 00 "		

Single Heater Cocks, $55.00 per doz. **Double Heater Cocks,** $18.00 each.

Gong Bells,

Inches,	6	7	8	9	10
Price each,	$3.00	3.50	4.00	5.00	6.00

Water Gauges,

No. and Size,	No. 1, 10x⅝	No. 2, 12x⅝	No. 3, 16x¾	No. 4, 20x⅞	No. 5 Size, to be ordered.
Price,	$14.00	16.00	20.00	25.00	

Rough Finished, $2.00 each less.

Safety Valves,

Inches,	½	¾	1	1¼	1½	2	2½	3	3½	4
Price,	$3.50	4.50	5.50	6.50	9.00	10 50	18.00	22.00	26 00	32.00

Governor and Stop Valves.—Iron Shell. Dia'r of Flange required.

Inches,	1½	2	2½	3
Price, each,	$9.00	13.00	18.00	26.00

Perpendicular Check Valves,

Inches,	⅜	½	¾	1	1¼	1½	2	2½	3
Price each,	$1.00	1.25	1.50	2.25	3.50	4.50	7.00	10.00	15.00

Horizontal Check Valves,

Inches,	⅜	½	¾	1	1¼	1½	2	2½	3
Price each,	$1.12	1.25	2.00	3.00	4.00	5.00	8.00	13.00	18.00

Flanges. 50 cts. per lb. extra.

Globe Valves —Iron and Brass Shells. With or without Flanges.

Inches,	1¼	1½	1¾	2	2¼	2½	3	3½	4	5	6
Price each,	$5.00	6.00	7.50	9.50	12.00	15.00	23.00	35.00	45.00	55.00	70.00

Angle Valves,

Inches,	1¼	1½	1¾	2	2¼	2½	3	3½	4	5	6
Price each,	$5.00	6.00	7.50	9.50	12.00	15.00	23.00	35.00	45.00	55.00	70.00

Angle Valves, for Lead or Copper Pipe, ¾ inch, $2.25 each.

Globe Valves, Iron Shells. Sleeves for Cast Water Pipe.

Inches,	3	4	5	6
Price each,	$18.00	25.00	35.00	50.00

Steam Connecting Cocks,

Inches,	¼	⅜	½	¾	1	1¼	1½	2
Price each,	$1.00	1.30	2.00	2.50	3.50	5.00	6.50	10.00

Steam Connecting Cocks,—Couplings,

Inches,	¼	⅜	½	¾	1	1¼	1½	2
Price per doz.	$16.00	18.00	26.00	38.00	57.00	72.00	86.00	136.00

Double Flange Cocks,

Inches,	¾	1	1¼	1½	1¾	2	2¼	2½	3	3½	4
Price per lb.,	75 cts.	75	75	75	75	75	75	75	75	75	75

Single Flange Cocks,

Inches,	¾	1	1¼	1½	1¾	2	2¼	2½	3	3½	4
Price per lb.,	75 cts.,	75	75	75	75	75	75	75	75	75	75

Yellow Brass, 5 cts. less per lb.

Single Flange Cocks,—Couplings,

Inches,	¾	1	1¼	1½	1¾	2	2¼	2½	3	3½	4
Price per lb.,	85 cts.	85	85	85	85	85	85	85	85	85	85

Blow-Off Cocks, 1½ Inch, $6.00 each.

Service Cocks,

Inches,	⅜	½	¾	1	1¼	1½	2
Price per doz.	$9.50	11.50	15.50	25.00	39.00	60.00	79.00

Malleable Iron Wrenches,

Inches,	⅜	½	¾	1	1¼	1½	1¾	2	2¼	2½	2¾	3
Price per doz.	58 cts.	64	82	94	$1.18	1.60	2.60	3.10	3.60	4.60	5.10	5.10

Brass Bushings,

Inches,	¼x⅜	⅜x½	¼x¾	¾x1	1x1¼	1¼x1½	1½x2
Brice per doz.	75 cts.	96	$1.20	1.56	3.50	4.85	7.00

Meter Cocks,

Inches,	½	¾	1	1¼	1½	2
Price per doz.	$11.50	14.50	24.00	36.00	53.00	70.00

Union Meter Cocks,

Inches,	½	¾	1	1¼	1½
Price per doz.	$12.00	15.00	23.00	41.00	56.00

Union Joints,

Inches,	¼	⅜	½	¾	1	1¼	1½	2
Price per doz.	$7.00	8.50	10.00	16.00	19.00	25.00	31.00	43.00

Soldering Union,

Inches,	⅜	½	¾	1	1¼	1½
Price per doz.	$5.00	6.00	7.50	9.00	13.00	19.00

Soldering Nipples,

Inches,	⅜	½	¾	1	1¼	1½
Price per doz.	$2.75	3.25	3.75	4.75	5.75	7.75

Steam Connecting Couplings, ¾ inch, $12.00 per doz. I inch, $18.00 per doz.

Plain Oil Cans, Spring Bottom,

Tin, $2.12. Brass or Copper, $4.25. Extra Sirong, $5.75.

Fancy Oil Cans, Spring Bottom,

Nos.	1	2	3	4	Tin,
Price per doz.	$2.37	2.65	3.10	3.75	

Copper and Brass Oilers,

Nos.	1	2	3	4	5
Price per doz.	$3.60	4.20	5.40	6.60	10.80

Gas Proving Pumps, $30.00 each.

Hose Pipes, Soldered Tip,

Inches,	¾	1	1¼	1½
Price per doz. Long.	$18.00	24.00	31.00	40.00
" " Short,	16.00	20.50		

Hose Couplings for Hose,

Inches,	¾	⅞	1	1¼	1½	1¾	2	2¼	2½	3
Price per doz.	$8.00	8.50	12.00	16.00	22.00	25.00	34.00	37.00	41.00	50.00

Telescopic Oil Cups,

$60.00 to $175.00 per pair, according to size.

Combined Water Gauges, for Marine and Stationery Boilers,

Marine, $ Stationery, $

Reverse Valves, $24.00.

Relief Air Cocks for Pumps, $10.00, Finished all over.

Brass and Copper Hand-Lamps, for Marine Service, $9.00 per doz.

Tin Liquid Measures, $1.25 per sett. Copper, Tinned Lined, $9.00 per sett.

Brass Drip Pans, $ per piece.

Brass Oil Cans, $ per piece.

JOSEPH LENNIG. T. MASON MITCHELL.

LENNIG & MITCHELL,

Agents for the Manufacture and Sale of the following named Articles.

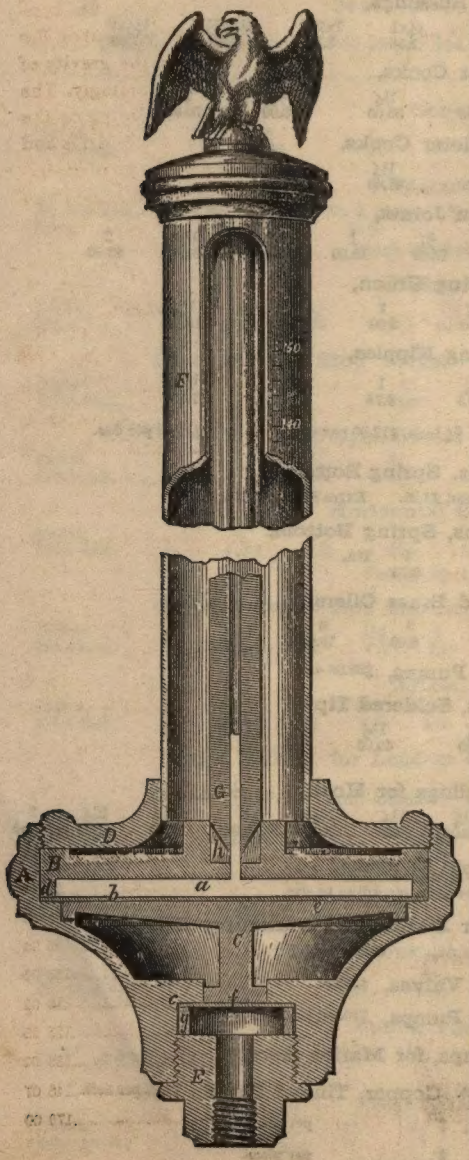
SHAW & JUSTICE'S

— PATENT —

RESERVOIR MERCURY PRESSURE GAUGE

For Stationery, Marine and Locomotive Engines,

COMPACT, DURABLE, AND ALWAYS A PERFECT TEST GAUGE, MEASURING BY THE ACTUAL WEIGHT OF MERCURY.



☞This Gauge is always true to the Registering Scale, under any variation of Temperature.

☞It is the most compact Gauge under high pressure, of any Mercury Gauge now made.

This Gauge is singularly Compact in form, being only about 18 inches in height, Simple in Construction, not liable to injury, and made in the strongest manner.

IT IS ALSO

DECIDEDLY CHEAP.

LIST OF PRICES:

50	lbs.,	Brass,	$20 00
100	"	"	22 50
150	"	"	25 00
200	"	"	27 50
250	"	"	30 00
300	"	"	32 50
350	"	"	35 00
400	"	"	37 50
450	"	"	40 00
500	"	"	42 50

TEST GAUGES,

Upon this Principle,

Manufactured of any pressure up to 10,000 lbs. to the square inch.

J. A. WAGENER'S

Patent Double-Lock

SEWING MACHINE & BASTER,

Including all the late and new Patent Improvements and Adjustments; combining Shaw's Patent mode of throwing crank over dead centre, thereby preventing any backward movement.

PRICE, $40.00.

PATENT
BASTER.

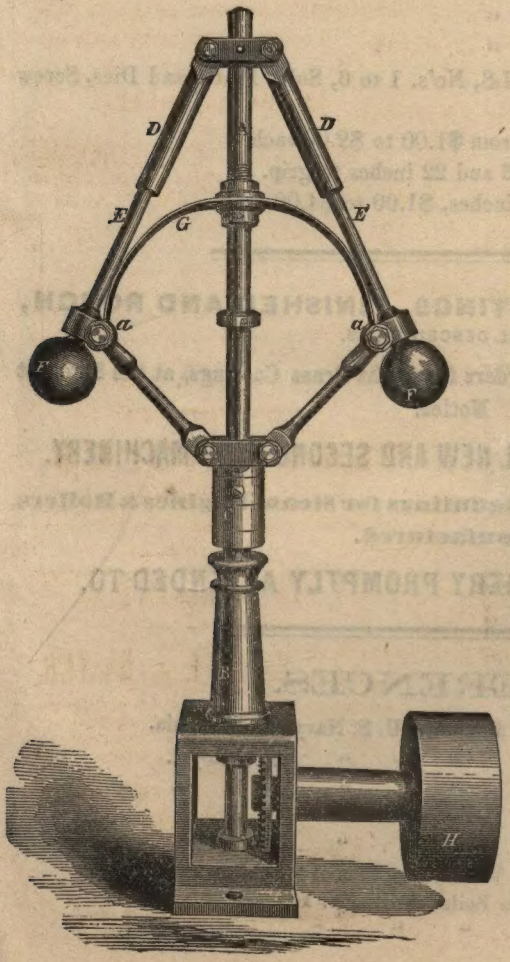
J. G. GLANE'S

PATENT

CENTRIFUGAL GOVERNOR.

For Stationery and Marine Engines.

"When the balls are rotated by a belt on the pulley (H,) they recede from the centre, and carry the sliding collars on the spindle with them: to these collars the Valve-rods are connected by levers as usual. The motion of the balls to or from the centre depends upon the velocity with which the Machine moves—if it is not great enough to overcome the gravity of the balls, they remain inert; but on an increase of speed, vary their position accordingly. The sensitive increase of this Governor is materially increased by the action of the spring on the arms. As the arms are expanded they slide up in the tubes at the top: shorten the arms and consequently overcome the velocity at which they move. Between the combination of centrifugal force and this peculiarity, the Governor possesses extreme sensitiveness when made so as to slide easily in the upper tubes."



Price List.

IRON.

10 to 15	Horse,	$50 00
15 to 20	"	60 00
20 to 25	"	70 00
25 to 30	"	80 00
30 to 40	"	90 00
40 to 50	"	100 00
50 to 60	"	110 00
60 to 70	"	120 00
70 to 80	"	130 00
80 to 90	"	140 00
90 to 100	"	165 00

BRASS.

10 to 15	Horse,	$55 00
15 to 20	"	65 00
20 to 25	"	75 00
25 to 30	"	85 00
30 to 40	"	95 00
40 to 50	"	105 00
50 to 60	"	115 00
60 to 70	"	125 00
70 to 80	"	135 00
80 to 90	"	145 07
90 to 100	"	170 00

All the Following named List of Goods and Tools, Furnished to Order, at the Regular Standard Market Rates.

STEAM & VACUUM GAUGES, BOURDON'S Patent, T. W. LANE'S Improvement, Brass and Iron Cases, Large, Small and Medium.
ENGINE REGISTERS or COUNTERS. 5 Sizes.
MARINE CLOCKS, Brass or Iron Cases. 4 Sizes.
SALINOMETER CASES, LONG'S PATENT, 57, 50. Floats and Thermometers.
STEAM ENGINE INDICATORS, Nos. 1 to 10, ¼ to 2 in. square inch.

TEES & ELBOWS,	⅛ to 8 inches,
TAPS & TONGS,	⅛ to 4 "
IRON UNIONS,	⅛ to 2½ "
CROSSES,	¼ to 4 "
IRON STOP COCKS,	¼ to 4 "
DRILLS & REAMERS,	⅛ to 2 "
DIES, (Solid)	⅛ to 4 "
DIES, (Half)	⅛ to 2 "
BOLT TAPS,	¼ to 1½ "

STEAM & GAS FITTERS TOOLS, No's. 1 to 6, Solid Plates and Dies, Screw and Cutts, &c., ⅛ to 3 inches.
GAS PLYERS, 6 to 14 inches. From $1.00 to $2.00 each.
PATENT PIPE WRENCH, 12, 16 and 22 inches to grip.
MONKEY WRENCHES, 6 to 21 inches, $1.00 to $4.00 each.

BRASS GOODS AND CASTINGS, FINISHED AND ROUGH,

OF ALL DESCRIPTIONS.

We are prepared to Execute all Orders for Light Brass Castings, at the Shortest Notice.

WE WILL ALSO BUY AND SELL NEW AND SECOND-HAND MACHINERY.

Every Description of Brass Mountings for Steam Engines & Boilers Manufactured.

REPAIRING OF MACHINERY PROMPTLY ATTENDED TO.

REFERENCES.

JOHN P. WHIPPLE, Chief Engineer, U. S. Navy, Philadelphia.
ROBERT DANBY, " " " Port Royal.
ALEX. HENDERSON, " " " N. Y.
EDWARD ROBIE, " " " N. Y.
PHILIP PELTZ, " " " Baltimore.
GEORGE M. CLAPP, Sup't Washington Iron Works, Newburgh, N. Y.
D. B. COBB, Agent Brooklyn Boiler Works, N. Y.
D. M'LEOD, Sup't " " " "